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## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Currently Amended) A method for preparing a spray-dried catalyst, comprising: first combining mineral oil with one or more liquid alkanes having three or more carbon atoms to form a mixture;
  - followed by combining with the mixture a catalyst system preparing a catalyst system comprising one or more components selected from the group consisting of metallocenes, non-metallocenes, and a combination thereof, and activators; adding-mineral-oil to the catalyst-system to form a slurry; and adding one or more liquid alkanes having three or more carbon atoms to the slurry in an amount sufficient to reduce feaming and viscosity of the slurry.
- 2. (Original) The method of claim 1, wherein the viscosity of the slurry is reduced by at least 30 percent due to the addition of the one or more liquid alkanes.
- 3. (Original) The method of claim 1, wherein the catalyst system is a mixed catalyst system comprising at least one metallocene component and at least one non-metallocene component.
- 4. (Original) The method of claim 1, wherein the slurry comprises up to 20 percent by weight of the one or more liquid alkanes.
- 5. (Original) The method of claim 1, wherein the slurry comprises between about 2 percent by weight and 15 percent by weight of the one or more liquid alkanes.

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- (Original) The method of claim 1, wherein the slurry comprises up to 50 percent by weight of the catalyst system.
- 7. (Original) The method of claim 1, wherein the slurry comprises at least 10 percent by weight of the catalyst system.
- 8. (Original) The method of claim 1, wherein the slurry comprises from 5 percent by weight to about 35 percent by weight of the catalyst system.
- 9. (Original) The method of claim 1, wherein the slurry comprises from 10 percent by weight to about 30 percent by weight of the catalyst system.
- 10. (Currently amended) The method of claim 1, wherein the metallocene, when present, component is represented by the formula:

$$Cp^{A}Cp^{B}MX_{n}$$

wherein:

M is a metal atom;

Cp<sup>A</sup> and Cp<sup>B</sup> are each independently an unsubstituted or substituted cyclic ring group;

X is a leaving group; and

n is zero or an integer from 1 to 4.

- 11. (Original) The method of claim 10, wherein Cp<sup>A</sup> and Cp<sup>B</sup> are each independently selected from the group consisting of cyclopentadicnyl, indenyl, combinations thereof, and derivatives thereof.
- 12. (Original) The method of claim 10, wherein M is zirconium.
- 13. (Original) The method of claim 10, wherein X is selected from the group consisting of amines, phosphones, ethers, carboxylates, dienes, hydrocarbyl radicals having from 1 to

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> 20 carbon atoms, hydrides, halogens, combinations thereof, and derivatives thereof, and wherein n is 2.

14, (Currently amended) The method of claim 1, wherein the non-metallocene, when present, component is represented by the formula:

 $\alpha_a \beta_b \gamma_e M X_n$ 

wherein M is a metal;

X is independently selected from the group consisting of halogen ions, hydrides, C<sub>1</sub> to C<sub>12</sub> alkyls, C<sub>2</sub> to C<sub>12</sub> alkenyls, C<sub>6</sub> to C<sub>12</sub> aryls, C<sub>7</sub> to C<sub>20</sub> alkylaryls, C<sub>1</sub> to C<sub>12</sub> alkoxys, C<sub>6</sub> to C<sub>16</sub> aryloxys, C<sub>7</sub> to C<sub>18</sub> alkylaryloxys, C<sub>1</sub> to C<sub>12</sub> fluoroalkyls, C<sub>6</sub> to C<sub>12</sub> fluoroaryls, C<sub>1</sub> to C<sub>12</sub> heteroatom-containing hydrocarbons, halogenated C<sub>6</sub> to C<sub>16</sub> aryloxys, and substituted derivatives thereof;

 $\beta$  and  $\gamma$  are groups that each comprise at least one Group 14 to Group 16 atom; a is a linking moiety that forms a chemical bond to each of 8 and y; and a, b, g, and n are each integers from 1 to 4.

- 15. (Original) The method of claim 14, wherein M is zirconium.
- 16. (Currently amended) A spray dried catalyst slurry for olefin polymerization, comprising the product of:

first combining mineral oil with one or more liquid alkanes having three or more carbon atoms to form a mixture;

followed by combining with the mixture a catalyst system comprising one or more catalysts selected from the group consisting of metallocenes, non-metallocenes, and a combination thereof, wherein the catalyst system is spray-dried:

mineral-oil to form a slurry comprising the catalyst system; and one or more liquid-alkanes having three or more carbon atoms in an amount sufficient to reduce feaming and viscosity of the slurry.

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- 17. (Original) The catalyst slurry of claim 16, wherein the catalyst system further comprises one or more activators.
- 18. (Original) The catalyst slurry of claim 16, wherein the slurry comprises up to 20 percent by weight of the one or more liquid alkanes.
- 19. (Original) The catalyst slurry of claim 16, wherein the slurry comprises between about 2 percent by weight and 15 percent by weight of the one or more liquid alkanes.
- 20. (Original) The catalyst slurry of claim 16, wherein the slurry comprises up to 50 percent by weight of the catalyst system.
- 21. (Original) The catalyst slurry of claim 16, wherein the slurry comprises at least 10 percent by weight of the catalyst system.
- 22. (Original) The catalyst slurry of claim 16, wherein the slurry comprises from 5 percent by weight to about 35 percent by weight of the catalyst system.
- 23. (Original) The catalyst slurry of claim 16, wherein the slurry comprises from 10 percent by weight to about 30 percent by weight of the catalyst system.
- 24. (Currently amended) The catalyst slurry of claim 16, wherein the metallocene, when present, component is represented by the formula:

$$Cp^{\Lambda}Cp^{B}MX_{n}$$

wherein:

M is a metal atom:

Cp<sup>A</sup> and Cp<sup>B</sup> are each independently an unsubstituted or substituted cyclic ring group; X is a leaving group; and

n is zero or an integer from 1 to 4.

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- 25. (Original) The catalyst slurry of claim 24, wherein Cp<sup>A</sup> and Cp<sup>B</sup> are each independently selected from the group consisting of cyclopentadienyl, indenyl, combinations thereof, and derivatives thereof.
- 26. (Original) The catalyst slurry of claim 24, wherein M is zirconium.
- 27. (Original) The catalyst slurry of claim 24, wherein X is selected from the group consisting of amines, phosphones, ethers, carboxylates, dienes, hydrocarbyl radicals having from 1 to 20 carbon atoms, hydrides, halogens, combinations thereof, and derivatives thereof, and wherein n is 2.
- 28. (Currently amended) The catalyst slurry of claim 16, wherein the non-metallocene, when present, component is represented by the formula:

## $\alpha_a \beta_b \gamma_g M X_n$

wherein M is a metal;

X is independently selected from the group consisting of halogen ions, hydrides, C<sub>1</sub> to C<sub>12</sub> alkyls, C<sub>2</sub> to C<sub>12</sub> alkenyls, C<sub>6</sub> to C<sub>12</sub> aryls, C<sub>7</sub> to C<sub>20</sub> alkylaryls, C<sub>1</sub> to C<sub>12</sub> alkoxys, C<sub>6</sub> to C<sub>16</sub> aryloxys, C<sub>7</sub> to C<sub>18</sub> alkylaryloxys, C<sub>1</sub> to C<sub>12</sub> fluoroalkyls, C<sub>6</sub> to C<sub>12</sub> fluoroaryls, C<sub>1</sub> to C<sub>12</sub> heteroatom-containing hydrocarbons, halogenated C<sub>6</sub> to C<sub>16</sub> aryloxys, and substituted derivatives thereof;

 $\beta$  and  $\gamma$  are groups that each comprise at least one Group 14 to Group 16 atom;  $\alpha$  is a linking moiety that forms a chemical bond to each of  $\beta$  and  $\gamma$ ; and a, b, g, and n are each integers from 1 to 4.

- 29. (Original) The catalyst slurry of claim 28, wherein M is zirconium.
- 30. (Currently amended) A method for olefin polymerization, comprising:

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first combining mineral oil with one or more liquid alkanes having three or more carbon atoms to form a mixture;

followed by combining with the mixture a catalyst system comprising one or more catalysts selected from the group consisting of metallocenes, non-metallocenes, and a combination thereof preparing a catalyst system useful for olefin polymerization;

adding mineral oil to the catalyst system to form a slurry; adding one or more liquid alkanes having three or more carbon atoms to the slurry in an amount sufficient to reduce feaming and viscosity of the slurry; and transferring the slurry to a gas phase reactor.

- 31. (Original) The method of claim 30, wherein the viscosity of the slurry is reduced by at least 30 percent due to the addition of the one or more liquid alkanes.
- 32. (Original) The method of claim 30, wherein the catalyst system is a mixed catalyst system comprising at least one metallocene component and at least one non-metallocene component.
- 33. (Original) The method of claim 30, wherein the slurry comprises up to 20 percent by weight of the one or more liquid alkanes.
- 34. (Original) The method of claim 30, wherein the slurry comprises up to 50 percent by weight of the catalyst system.
- 35. (Currently amended) The method of claim 30, wherein the metallocene, when present, component is represented by the formula:

wherein:

M is a metal atom;

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Cp<sup>A</sup> and Cp<sup>B</sup> are each independently an unsubstituted or substituted cyclic ring group;

X is a leaving group; and n is zero or an integer from 1 to 4.

- 36. (Original) The method of claim 35, wherein Cp<sup>A</sup> and Cp<sup>B</sup> are each independently selected from the group consisting of cyclopentadienyl, indenyl, combinations thereof, and derivatives thereof, and wherein M is zirconium.
- 37. (Original) The method of claim 35, wherein X is selected from the group consisting of amines, phosphones, ethers, carboxylates, dienes, hydrocarbyl radicals having from 1 to 20 carbon atoms, hydrides, halogens, combinations thereof, and derivatives thereof, and wherein n is 2.
- 38. (Currently amended) The method of claim 30, wherein the non-metallocene, when present, component is represented by the formula:

 $\alpha_a \beta_b \gamma_e M X_n$ 

wherein M is a metal:

X is independently selected from the group consisting of halogen ions, hydrides, C<sub>1</sub> to C<sub>12</sub> alkyls, C<sub>2</sub> to C<sub>12</sub> alkenyls, C<sub>6</sub> to C<sub>12</sub> aryls, C<sub>7</sub> to C<sub>20</sub> alkylaryls, C<sub>1</sub> to C<sub>12</sub> alkoxys, C<sub>6</sub> to C<sub>16</sub> aryloxys, C<sub>7</sub> to C<sub>18</sub> alkylaryloxys, C<sub>1</sub> to C<sub>12</sub> fluoroalkyls, C<sub>6</sub> to C<sub>12</sub> fluoroaryls, C<sub>1</sub> to C<sub>12</sub> heteroatom-containing hydrocarbons, halogenated C<sub>6</sub> to C<sub>16</sub> aryloxys, and substituted derivatives thereof;

 $\beta$  and  $\gamma$  are groups that each comprise at least one Group 14 to Group 16 atom;  $\alpha$  is a linking moiety that forms a chemical bond to each of  $\beta$  and  $\gamma$ ; and a, b, g, and n are each integers from 1 to 4.

39. (Original) The method of claim 38, wherein M is zirconium.